

FIG. 51

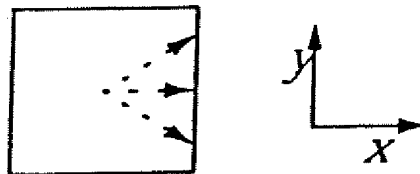


FIG. 52

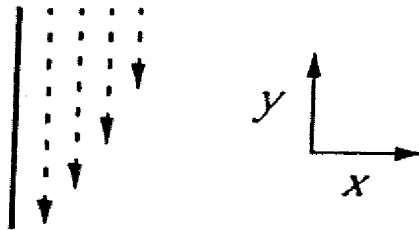


FIG. 53A

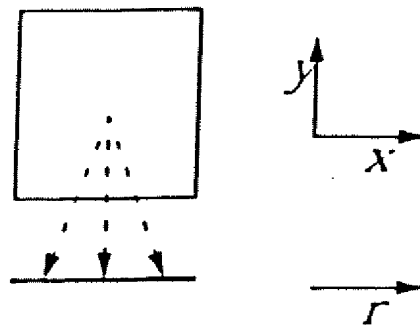


FIG. 53B

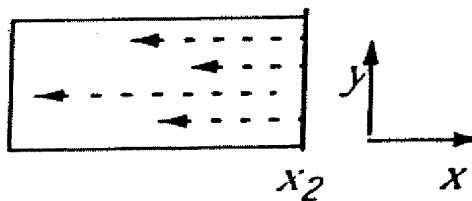


FIG. 54

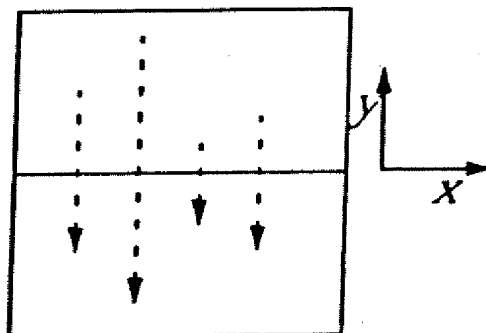


FIG. 55A

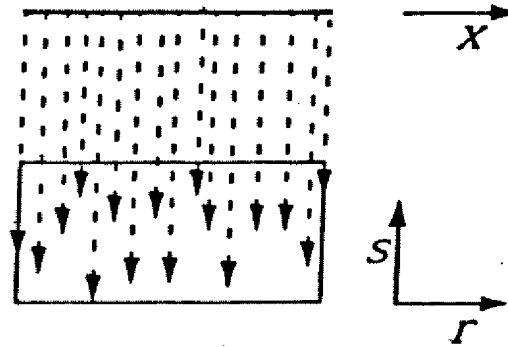


FIG. 55B

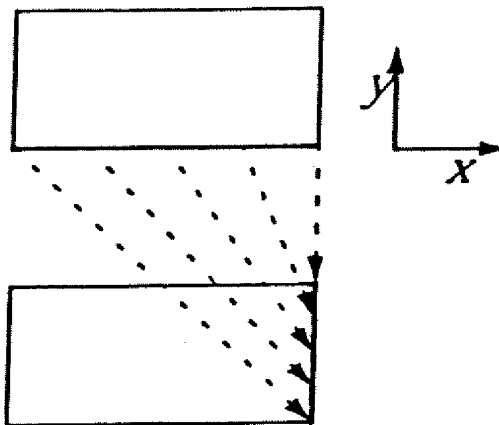


FIG. 55C

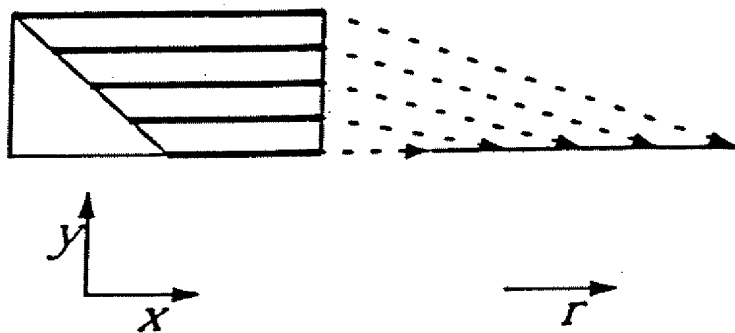


FIG. 56A

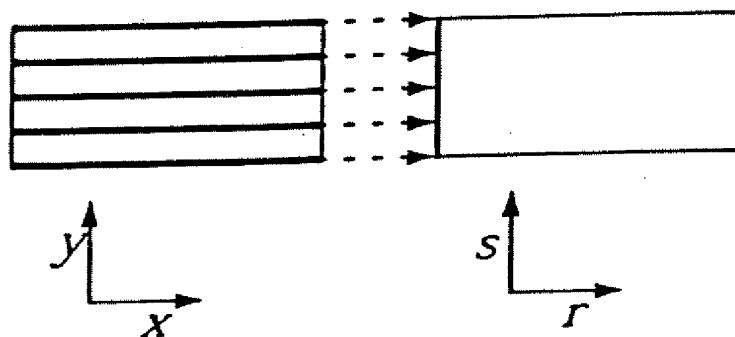


FIG. 56B

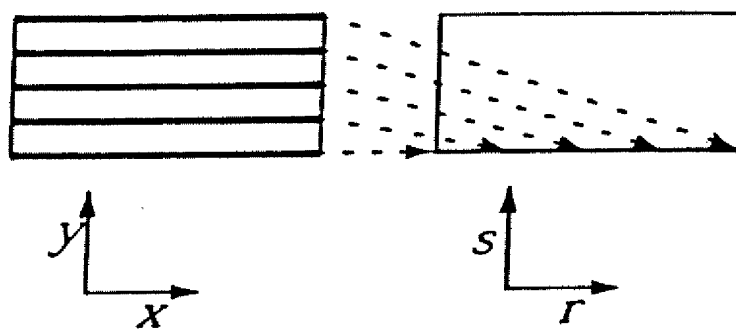


FIG. 56C

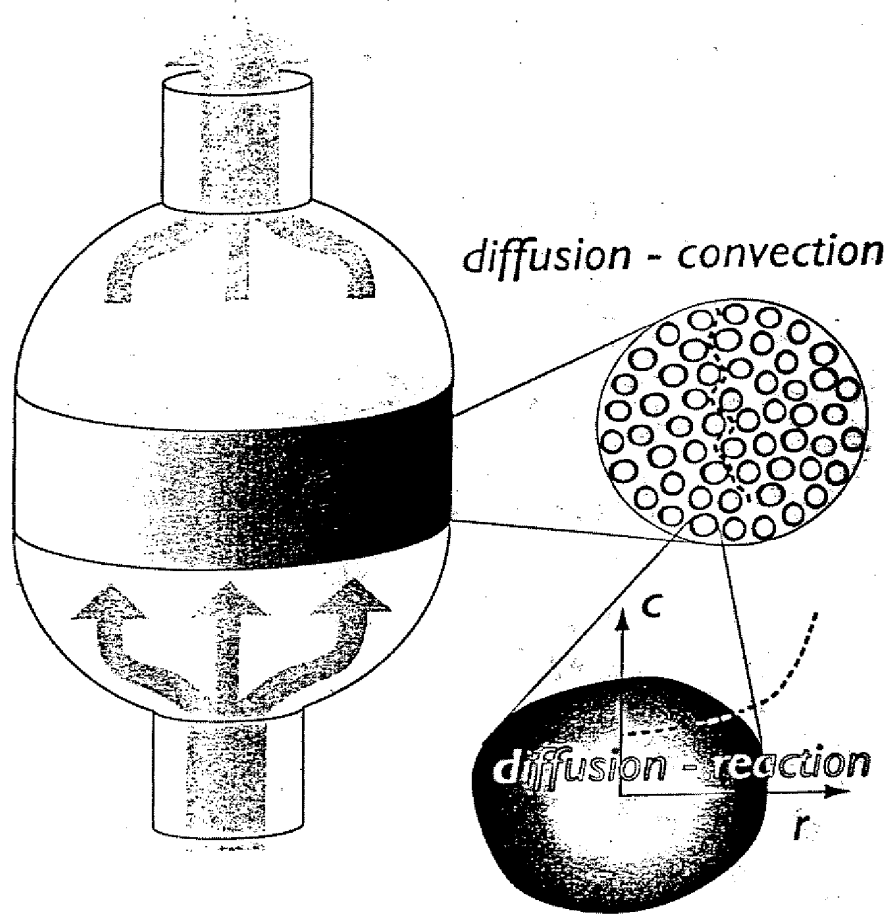


FIG. 57

Coupling Variable Settings

Variables	Source	Destination
C_x	extrusion	Geom2:sub 1 -> Geom1:bnd 3
Ndotn_x	extrusion	Geom1:sub -> Geom1:sub

Variable name:

Variable type:

☒ On top

FIG. 58

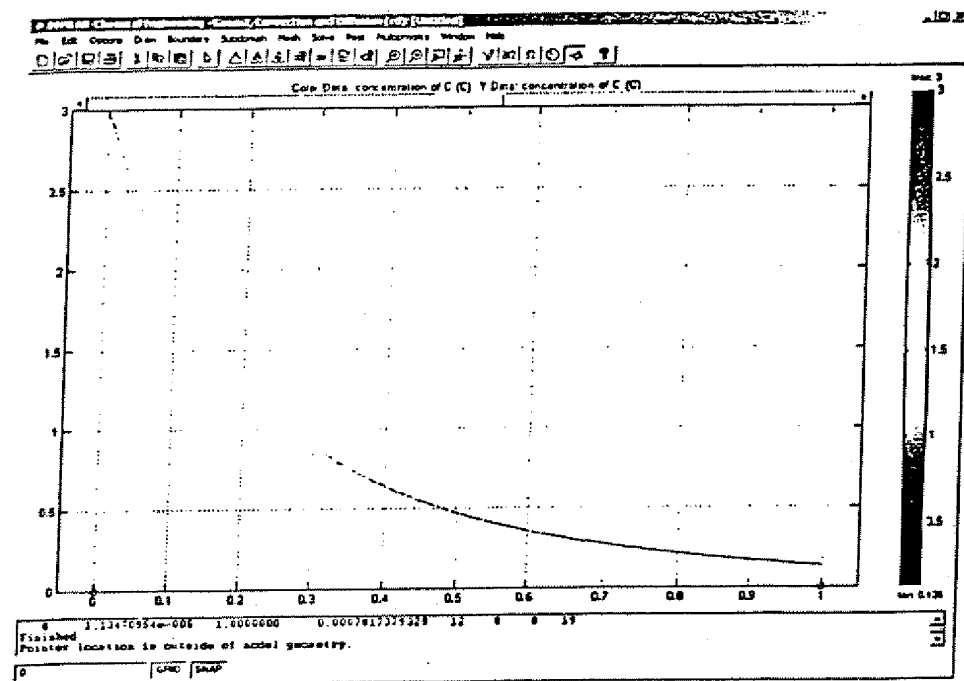


FIG. 59

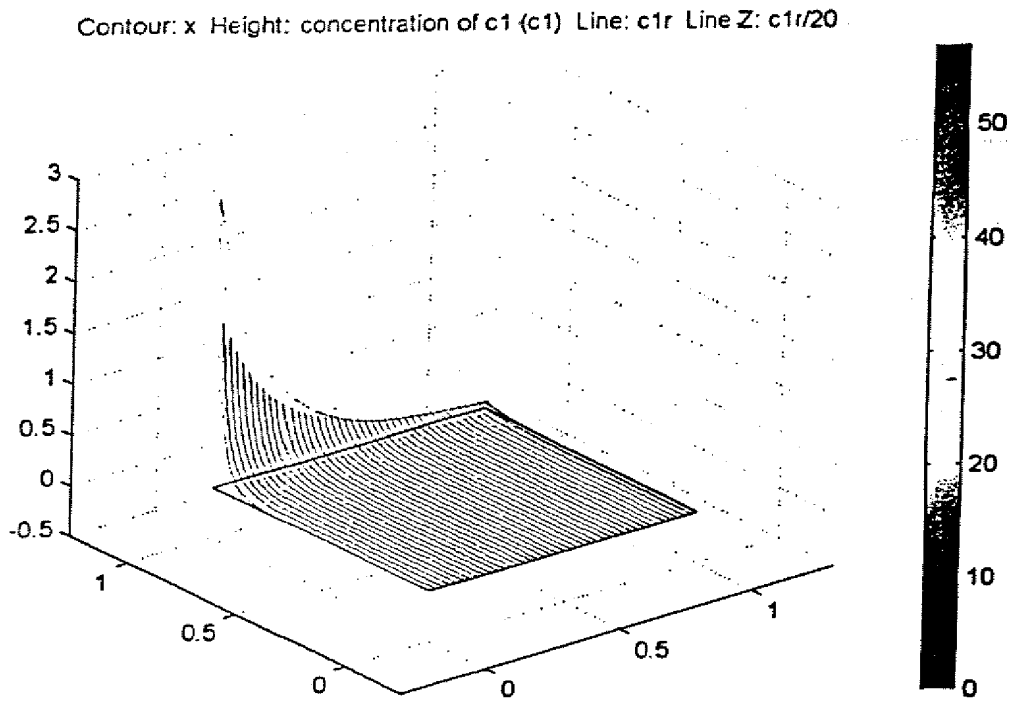


FIG. 60

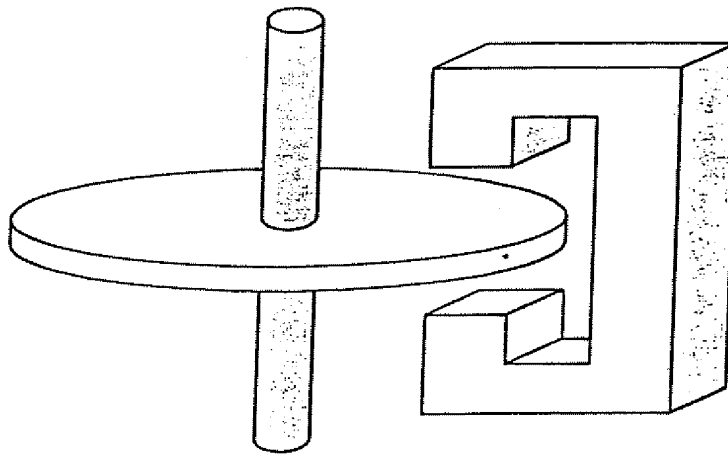


FIG. 61

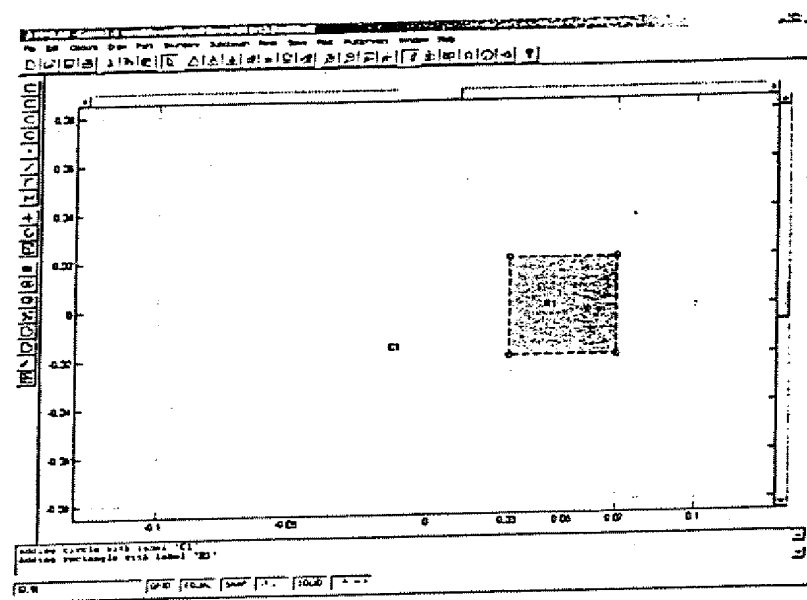


FIG. 62

The figure shows a dialog box titled "Expression Variable Settings". It has two tabs: "Variables" and "Definition". The "Variables" tab is selected. Below the tabs is a table with three columns: "Name", "Type", and "Defined in". The table contains one row with the following values: "BD", "subdomain", and "Geon1:sub". Below the table are two input fields: "Variable name" with the value "BD" and "Variable type" with the value "subdomain". To the right of these fields are two buttons: "Add" and "Delete". At the bottom of the dialog box are four buttons: "On top", "OK", "Cancel", and "Apply".

Name	Type	Defined in
BD	subdomain	Geon1:sub

Variable name:

Variable type:

Buttons: Add, Delete, On top, OK, Cancel, Apply

FIG. 63

Expression Variable Settings

Variables | Definition

Variable: B0

Domain selection

Geometry: Geom1

Level: subdomain

1
2

Select by group

Definition ☒ Copy from 2

Expressions: 1e-3

☒ On top OK Cancel Apply

FIG. 64

Mesh Parameters

General mesh parameters

Max edge size, general: 0.04

Mesh growth rate: 1.3

Mesh curvature factor: 0.3

Symmetry boundaries

☒ Jiggle mesh

Mesh smoothing parameters

Optimization method: mean

Number of jiggle iterations

Refinement method: regular

Local element size

Max element size near vertices

Max element size for edges

Max element size for subdomains: 2 0.01

Number of elements

Total number of elements

Number of elements per edge

Mesh size expressions

Geometry resolution parameters

Default, vertices per edge: 10

Specified, vertices per edge

Remesh OK Cancel << Less

FIG. 65

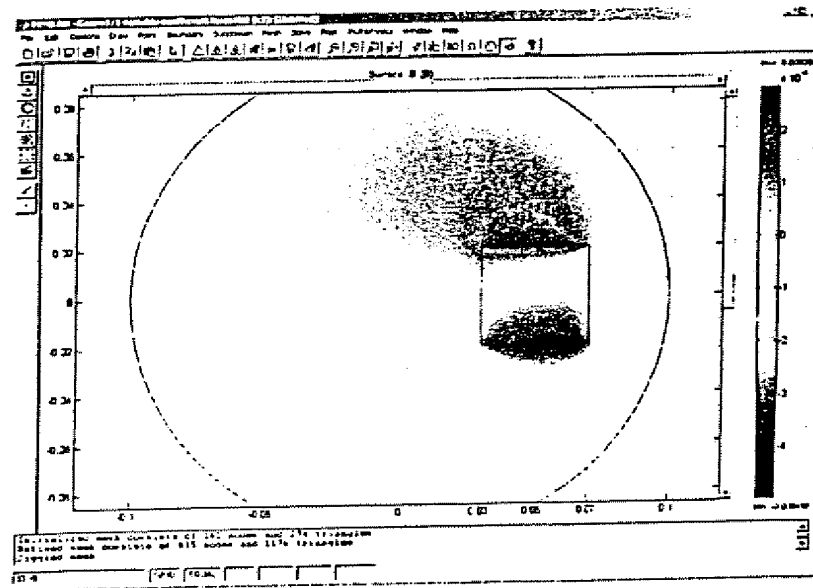


FIG. 66

Coupling Variable Settings

Variables	Source	Destination
Name:	Type:	Defined from → Available in:
1	scalar	Geom2:sub → Geom2:sub

Variable name:

Variable type:

☒ On top

FIG. 67

Expanding Variable Settings

Variables | Source | Destination |

Variable: M

Domain selection

Geometry:

Level:

☐ Select by group

Definition ☒ Copy from 1

Integrand: $[B+BD]^T y^T B x x^T B y / \mu$

Integration order:

Local mesh transformation

x:

y:

z:

☒ On top

FIG. 68

Expanding Variable Settings

Variables | Source | Destination |

Variable: M

Domain selection

Geometry:

Level:

☐ Select by group

Definition ☒ Copy from 1

☒ Active in this domain

Evaluation, point transformation

x:

y:

z:

☒ On top

FIG. 69

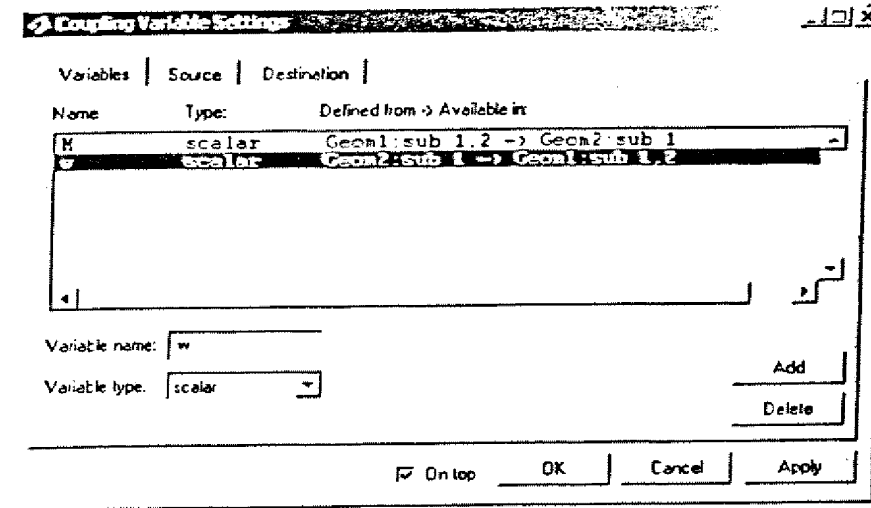


FIG. 70

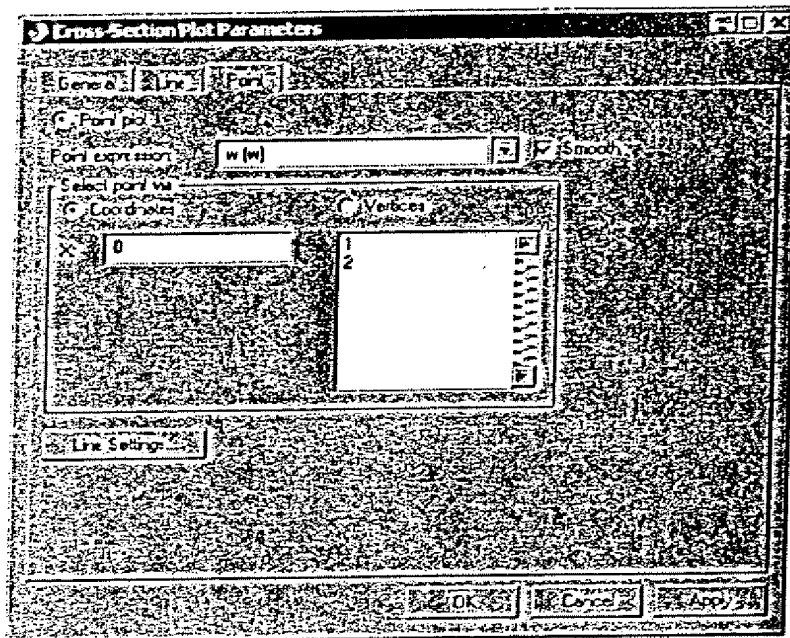


FIG. 71

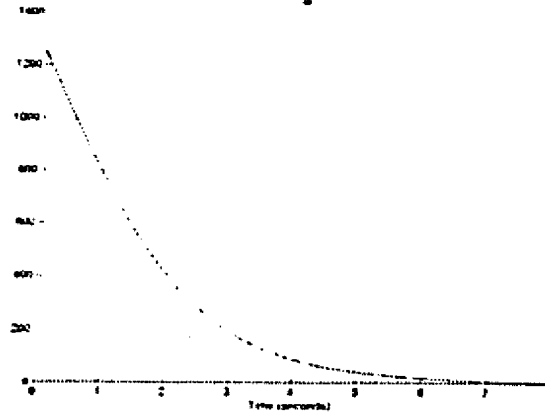


FIG. 72A

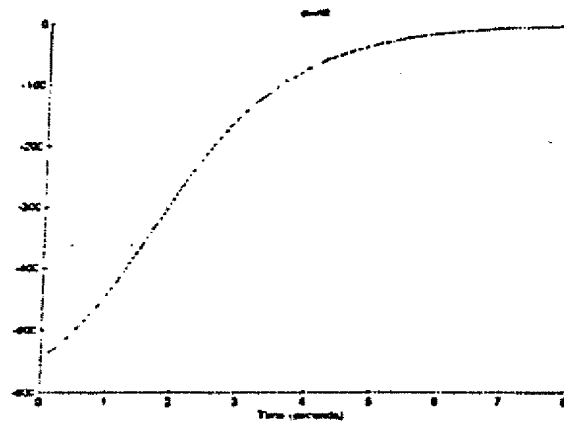


FIG. 72B